

Contact insert module - HC-M-12-CT-F



1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.



Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Socket, Crimp connection, 250 V, 10 A, 0.14 mm² ... 2.5 mm², application: Signal

Commercial Data

Item number	1414355
Packing unit	5 pc
Minimum order quantity	5 pc
Product Key	BF7ACE
Catalog Page	Page 581 (C-2-2019)
GTIN	4055626024684
Weight per Piece (including packing)	9.5 g
Weight per Piece (excluding packing)	9.46 g
Customs tariff number	85389099
Country of origin	PL

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Technical Data

Notes

General	For HEAVYCON housing type B6 to B48, HC-M-B...MF-... hinged module carrier frame required, CK1,6-ED... crimp contacts, crimp contacts not supplied as standard.
General	Connectors may be operated only when there is no load/voltage.

Product properties

Product type	Modular contact insert
Number of positions	12
Connection profile	12
Application	Signal
Number of module slots	1
No. of power contacts	0
No. of control contacts	12
Contact type	turned rolled
Series	HC-M-12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

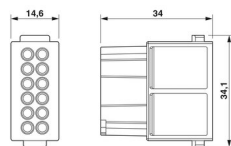
Connection technology

Connection technology	Crimp connection
-----------------------	------------------

Conductor connection

Conductor cross section	0.14 mm ² ... 2.5 mm ²
Connection cross section AWG	26 ... 14
Stripping length of the individual wire	8 mm (6 mm (for 2.5 mm ²))

Dimensions

Dimensional drawing	
Width	34.2 mm
Height	34 mm
Length	14.6 mm

Mechanical characteristics

Minimum housing height	52 mm
------------------------	-------

Contact insert module - HC-M-12-CT-F



1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Contact diameter	1.6 mm
------------------	--------

Electrical properties

Rated voltage (III/3)	250 V
Rated surge voltage	4 kV
Rated current	10 A

Material specifications

Color	light grey
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Connector

Insertion/withdrawal cycles	≥ 500
-----------------------------	-------

Cable / line

Stripping length of the individual wire	8 mm (6 mm (for 2.5 mm ²))
---	--

Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
-----------------------	---

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)
---------------------------------	--

Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
-----------------------	---

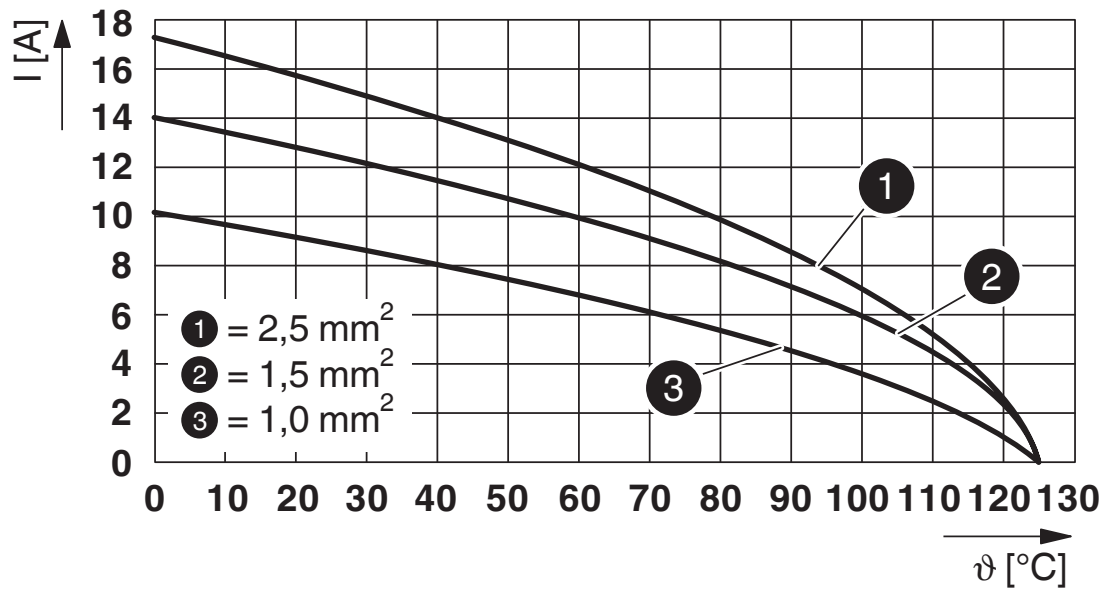
Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Drawings

Diagram



Derating diagram turned contacts

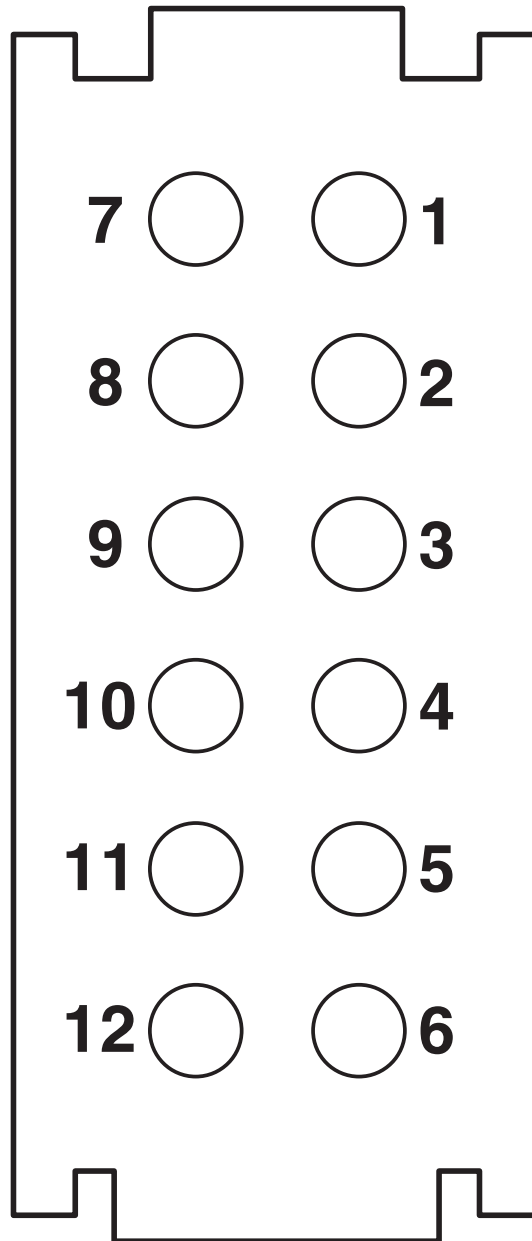
Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>



Schematic diagram



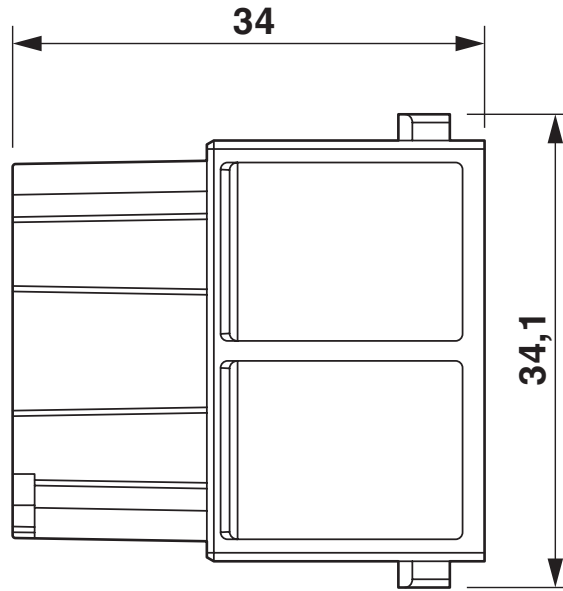
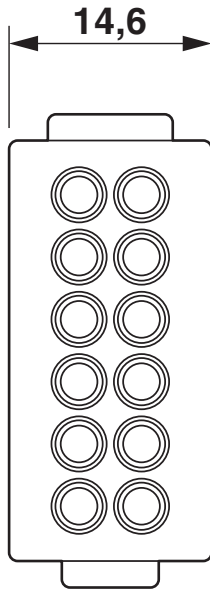
Connector pin assignment, connection side

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Dimensional drawing



Female insert

Contact insert module - HC-M-12-CT-F



1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Approvals

DNV

Approval ID: TAE000037S



CSA

Approval ID: 13631

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	12 A	- 14	-



UL Recognized

Approval ID: E118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	16 A	- 14	-



EAC

Approval ID: RU C-DE.AI30.B.01102



EAC

Approval ID: RU C-DE.BL08.B.00511

Contact insert module - HC-M-12-CT-F



1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Classifications

ECLASS

ECLASS-9.0	27440217
ECLASS-10.0.1	27440217
ECLASS-11.0	27440217

ETIM

ETIM 8.0	EC000438
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

Contact insert module - HC-M-12-CT-F



1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Accessories

Coding element

Coding element - HC-CBU-MOD - 1636130

<https://www.phoenixcontact.com/pc/products/1636130>

Coding socket for coding up to 16 connectors, for HC Modular



Coding element

Coding element - HC-CST-MOD - 1636127

<https://www.phoenixcontact.com/pc/products/1636127>

Coding peg for coding up to 16 connectors, for HC Modular



Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Coding element

Coding element - HC-CP-CK1.6-PL - 1095422

<https://www.phoenixcontact.com/pc/products/1095422>

Coding element for HC-D and HC-DD contact inserts with pole loss. Installed in the socket contact chamber.



Crimping pliers

Crimping pliers - CRIMPFOX-1,6-ED-POF-N - 1584839

<https://www.phoenixcontact.com/pc/products/1584839>

Crimping pliers for turned fiber optics contacts CK1,6-ED...POF



Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>



Contact removal tool

Contact removal tool - UNIFOX RT-CK 1.6 - 1072069

<https://www.phoenixcontact.com/pc/products/1072069>



Contact removal tool, for turned and rolled CK- 1.6-... contacts

Assembly tool

Assembly tool - UNIFOX MT-CK 1.6/2.5 - 1089092

<https://www.phoenixcontact.com/pc/products/1089092>



Assembly tool, for CK 1.6... crimp contacts for small conductor cross sections

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Cable lug

Cable lug - HC-M-MHR-PE16 - 1636981

<https://www.phoenixcontact.com/pc/products/1636981>



Cable lug for HEAVYCON-MODULAR; PE connection extension to 16 mm², for crimping with crimp pliers

Crimp contact

Crimp contact - CK1,6-ED-0,37BU AG - 1663394

<https://www.phoenixcontact.com/pc/products/1663394>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 26 ... 22

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-0,50BU AG - 1663404

<https://www.phoenixcontact.com/pc/products/1663404>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

Crimp contact

Crimp contact - CK1,6-ED-0,75BU AG - 1663417

<https://www.phoenixcontact.com/pc/products/1663417>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-1,00BU AG - 1663420

<https://www.phoenixcontact.com/pc/products/1663420>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

Crimp contact

Crimp contact - CK1,6-ED-1,50BU AG - 1663433

<https://www.phoenixcontact.com/pc/products/1663433>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-2,50BU AG - 1663446

<https://www.phoenixcontact.com/pc/products/1663446>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

Female contact

Female contact - CK1,6-ED-BU-POF - 1885004

<https://www.phoenixcontact.com/pc/products/1885004>



POF fiber optic socket contact, turned, for contact carriers (HC-DD...I-CT.../ HC-M-12-CT-F.../ HC-M-17-CT-F...) of CK1,6-ED... contacts

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-0,37F AG - 1266249

<https://www.phoenixcontact.com/pc/products/1266249>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm² ... 0.34 mm², AWG 24 ... 22, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-0,50F AG - 1266252

<https://www.phoenixcontact.com/pc/products/1266252>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20, Lead-free

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-0,75F AG - 1266259

<https://www.phoenixcontact.com/pc/products/1266259>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-1,00F AG - 1266296

<https://www.phoenixcontact.com/pc/products/1266296>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm² ... 1 mm², AWG 18, Lead-free

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-1,50F AG - 1266263

<https://www.phoenixcontact.com/pc/products/1266263>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-2,50F AG - 1266295

<https://www.phoenixcontact.com/pc/products/1266295>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14, Lead-free

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-0,37BU AU - 1674969

<https://www.phoenixcontact.com/pc/products/1674969>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 24 ... 22

Crimp contact

Crimp contact - CK1,6-ED-0,50BU AU - 1674480

<https://www.phoenixcontact.com/pc/products/1674480>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-0,75BU AU - 1672440

<https://www.phoenixcontact.com/pc/products/1672440>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

Crimp contact

Crimp contact - CK1,6-ED-1,00BU AU - 1674943

<https://www.phoenixcontact.com/pc/products/1674943>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ED-1,50BU AU - 1674930

<https://www.phoenixcontact.com/pc/products/1674930>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

Crimp contact

Crimp contact - CK1,6-ED-2,50BU AU - 1674985

<https://www.phoenixcontact.com/pc/products/1674985>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-ER-1,00BU OIC AG - 1004362

<https://www.phoenixcontact.com/pc/products/1004362>



Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm² ... 1 mm², AWG 22 ... 17

Crimp contact

Crimp contact - CK1,6-ER-2,50BU OIC AG - 1004366

<https://www.phoenixcontact.com/pc/products/1004366>



Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm² ... 2.5 mm², AWG 16 ... 14

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimp contact

Crimp contact - CK1,6-BR-1,00BU OIC AG - 1004381

<https://www.phoenixcontact.com/pc/products/1004381>



Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm² ... 1 mm², AWG 22 ... 17, Taped products

Crimp contact

Crimp contact - CK1,6-BR-2,50BU OIC AG - 1004383

<https://www.phoenixcontact.com/pc/products/1004383>



Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm² ... 2.5 mm², AWG 16 ... 14, Taped products

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Module carrier frame

Module carrier frame - HC-M-B06-MFH-B - 1182085

<https://www.phoenixcontact.com/pc/products/1182085>

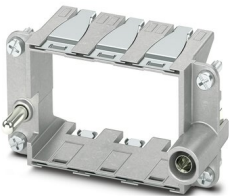


Module carrier frame, size: B6, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B10-MFH-B - 1182088

<https://www.phoenixcontact.com/pc/products/1182088>



Module carrier frame, size: B10, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Module carrier frame

Module carrier frame - HC-M-B16-MFH-B - 1182090

<https://www.phoenixcontact.com/pc/products/1182090>

Module carrier frame, size: B16, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame



Module carrier frame

Module carrier frame - HC-M-B24-MFH-B - 1182094

<https://www.phoenixcontact.com/pc/products/1182094>

Module carrier frame, size: B24, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame



Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Module carrier frame

Module carrier frame - HC-M-B06-MFH-H - 1182087

<https://www.phoenixcontact.com/pc/products/1182087>



Module carrier frame, size: B6, type : for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B10-MFH-H - 1182089

<https://www.phoenixcontact.com/pc/products/1182089>



Module carrier frame, size: B10, type : for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², application: Module carrier frame

Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Module carrier frame

Module carrier frame - HC-M-B16-MFH-H - 1182093

<https://www.phoenixcontact.com/pc/products/1182093>

Module carrier frame, size: B16, type : for the sleeve side (A, B, C, ...), 4 mm² ...
6 mm², application: Module carrier frame



Module carrier frame

Module carrier frame - HC-M-B24-MFH-H - 1182095

<https://www.phoenixcontact.com/pc/products/1182095>

Module carrier frame, size: B24, type : for the sleeve side (A, B, C, ...), 4 mm² ...
6 mm², application: Module carrier frame



Contact insert module - HC-M-12-CT-F

1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimping pliers with digital display

Crimping pliers with digital display - CRIMPFOX-TC MP-6 - 1202888

<https://www.phoenixcontact.com/pc/products/1202888>



Crimping tool, for turned contacts, universal cross-section setting, up to a maximum of 6.0 mm², digital display with 0.01 mm increments, pressure lock can be unlocked, positioning tool necessary as an accessory for contact positioning

Crimping pliers

Crimping pliers - CRIMPFOX-1,6/2,5-ED-4,0 - 1687419

<https://www.phoenixcontact.com/pc/products/1687419>



Crimping pliers, for turned contacts, CK 1.6 ED... and CK 2.5 ED...

Contact insert module - HC-M-12-CT-F



1414355

<https://www.phoenixcontact.com/pc/products/1414355>

Crimping pliers

Crimping pliers - CRIMPFOX-TC 4 - 1212113

<https://www.phoenixcontact.com/pc/products/1212113>



Crimping pliers, for CK 1,6-ED..., CK 2,5-ED..., CK 4,0-ED... turned contacts, 4 marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

Contact insert module

Contact insert module - HC-M-12-CT-M - 1414354

<https://www.phoenixcontact.com/pc/products/1414354>



Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Pin, Crimp connection, 250 V, 10 A, 0.14 mm² ... 2.5 mm², application: Signal

Phoenix Contact 2022 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com